

**Hh: Hadley very fine sandy loam, frequently flooded**

The Hadley component makes up 85 percent of the map unit. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. This component is on flood plains on river valleys. The parent material consists of coarse-silty alluvium. Depth to a root restrictive layer is greater than 60 inches.

|                                              |                    |                                     |
|----------------------------------------------|--------------------|-------------------------------------|
| Important farmland classification: Prime (f) | Land capability: 1 | Vermont Agricultural Value Group: 1 |
|----------------------------------------------|--------------------|-------------------------------------|

Vermont Residential Onsite Waste Disposal Group and Subgroup: IIIg

This unit is marginally suited as a site for soil-based residential wastewater disposal systems, based on a review by the Natural Resources Conservation Service of criteria set forth in the Vermont 2007 Environmental Protection Rules. The hazard of flooding is the major limitation. This unit is on floodplains and typically includes land in the floodway and the special flood hazard area. Consult flood hazard maps prepared by the Federal Emergency Management Agency (FEMA) in local town offices for more information. Wastewater systems must be located, designed and constructed in a manner that avoids impairment to the system and contamination from the system due to flooding.

| PHYSICAL and CHEMICAL PROPERTIES |            |                 |            |                    |                      |                      | EROSION FACTORS |     |   |
|----------------------------------|------------|-----------------|------------|--------------------|----------------------|----------------------|-----------------|-----|---|
| Soil name                        | Depth (In) | Typical texture | Clay (Pct) | Soil reaction (pH) | Permeability (In/Hr) | Organic matter (Pct) | Kw              | Kf  | T |
| Hadley                           | 0-11       | VFSL            | 4-10       | 4.5 - 7.3          | 0.6-2                | 2.0-5.0              | .32             | .32 | 5 |
|                                  | 11-68      | VFSL            | 2-10       | 4.5 - 7.8          | 0.6-6                | 0.5-2.0              | .49             | .49 |   |
|                                  | 68-72      | SIL             | 1-8        | 5.1 - 7.8          | 0.6-6                | 0.0-0.5              | .64             | .64 |   |

| WATER FEATURES |                  |                                           |           |                     |           | SOIL FEATURES |              |                                    |
|----------------|------------------|-------------------------------------------|-----------|---------------------|-----------|---------------|--------------|------------------------------------|
| Soil name      | Hydrologic group | Depth to seasonal high water table (Feet) | Flooding  |                     | Ponding   |               | Hydric soil? | Depth to bedrock (range in inches) |
|                |                  |                                           | Frequency | Duration            | Frequency | Duration      |              |                                    |
| Hadley         | B                | 4.0->6.0                                  | Frequent  | Brief (2 to 7 days) | None      |               | No           | ---                                |

| LAND USE LIMITATIONS |                           |                  |           | AGRICULTURAL YIELD DATA |              |
|----------------------|---------------------------|------------------|-----------|-------------------------|--------------|
| Soil name            | Land use                  | Rating           | Reason ** | Crop name               | Yield / acre |
| Hadley               | Dwellings with basements: | Very limited     | Flooding  | Alfalfa hay             | 5 Tons       |
| Hadley               | Pond reservoir areas:     | Somewhat limited | Seepage   | Grass-legume hay        | 4.5 Tons     |
|                      |                           |                  |           | Grass-clover            | 8.5 AUM      |
|                      |                           |                  |           | Corn silage             | 28 Tons      |

| WOODLAND MANAGEMENT |                            |               |          |                                                                                                                                                         |
|---------------------|----------------------------|---------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Soil name           | Management concern         | Rating        | Reason   | Vermont natural communities                                                                                                                             |
| Hadley              | Harvest equip operability: | Well suited   |          | Silver Maple-Ostrich Fern Riverine Floodplain Forest,<br>Sugar Maple-Ostrich Fern Riverine Floodplain Forest,<br>Successional Floodplain Forest Variant |
| Hadley              | Road suitability:          | Poorly suited | Flooding |                                                                                                                                                         |
| Hadley              | Erosion hazard (off-road): | Slight        |          |                                                                                                                                                         |